

SEQUENCE LISTING

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<120> Method For Predicting Functions of Protein

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<150> PCT/JP98/02302
<151> 1998-05-26

<160> 6

<170> PatentIn version 3.0

<210> 1
<211> 159
<212> PRT
<213> Escherichia coli

<400> 1

Met Ile Ser Leu Ile Ala Ala Leu Ala Val Asp Arg Val Ile Gly Met
1 5 10 15

Glu Asn Ala Met Pro Trp Asn Leu Pro Ala Asp Leu Ala Trp Phe Lys
20 25 30

Arg Asn Thr Leu Asp Lys Pro Val Ile Met Gly Arg His Thr Trp Glu
35 40 45

Ser Ile Gly Arg Pro Leu Pro Gly Arg Lys Asn Ile Ile Leu Ser Ser
50 55 60

Gln Pro Gly Thr Asp Asp Arg Val Thr Trp Val Lys Ser Val Asp Glu
65 70 75 80

Ala Ile Ala Ala Cys Gly Asp Val Pro Glu Ile Met Val Ile Gly Gly
85 90 95

Gly Arg Val Tyr Glu Gln Phe Leu Pro Lys Ala Gln Lys Leu Tyr Leu
100 105 110

Thr His Ile Asp Ala Glu Val Glu Gly Asp Thr His Phe Pro Asp Tyr
 115 120 125
 Glu Pro Asp Asp Trp Glu Ser Val Phe Ser Glu Phe His Asp Ala Asp
 130 135 140
 Ala Gln Asn Ser His Ser Tyr Cys Phe Lys Ile Leu Glu Arg Arg
 145 150 155
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 <213> Bovine
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 Ile Val Gly Gly Tyr Thr Cys Gly Ala Asn Thr Val Pro Tyr Gln Asx
 1 5 10 15
 Ser Leu Asn Ser Gly Tyr His Phe Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30
 Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Gly Ile Gln Val
 35 40 45
 Arg Leu Gly Glu Asp Asn Ile Asn Val Asx Glu Gly Asn Glu Gln Phe
 50 55 60
 Ile Ser Ala Ser Lys Ser Ile Val His Pro Ser Tyr Asn Ser Asn Thr
 65 70 75 80
 Leu Asn Asn Asp Ile Met Leu Ile Lys Leu Lys Ser Ala Ala Ser Leu
 85 90 95
 Asn Ser Arg Val Ala Ser Ile Ser Leu Pro Thr Ser Cys Ala Ser Ala
 100 105 110
 Gly Thr Gln Cys Leu Ile Ser Gly Trp Gly Met Thr Lys Ser Ser Gly
 115 120 125
 Thr Ser Tyr Pro Asp Asx Leu Lys Cys Leu Lys Ala Pro Ile Leu Ser
 130 135 140
 Asp Ser Ser Cys Lys Ser Ala Tyr Pro Gly Gln Ile Thr Ser Asn Met
 145 150 155 160
 Phe Cys Ala Gly Tyr Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp
 165 170 175

Cys Gly Gly Pro Val Val Cys Ser Gly Lys Leu Gln Gly Ile Val Ser
 180 185 190

Trp Gly Ser Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Ser Trp Ile Lys Gln Thr Ile Ala Ser Asn
 210 215 220

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<212> PRT

<213> Bovine

<400> 3

Lys Glu Thr Ala Ala Ala Lys Phe Glu Arg Gln His Met Asp Ser Ser
 1 5 10 15

Thr Ser Ala Ala Ser Ser Ser Asn Tyr Cys Asn Gln Met Met Lys Ser
 20 25 30

Arg Asn Leu Thr Lys Asp Arg Cys Lys Pro Val Asn Thr Phe Val His
 35 40 45

Glu Ser Leu Ala Asp Val Gln Ala Val Cys Ser Gln Lys Asn Val Ala
 50 55 60

Cys Lys Asn Gly Gln Thr Asn Cys Tyr Gln Ser Tyr Ser Thr Met Ser
 65 70 75 80

Ile Thr Asp Cys Arg Glu Thr Gly Ser Ser Lys Tyr Pro Asn Cys Ala
 85 90 95

Tyr Lys Thr Thr Gln Ala Asn Lys His Ile Ile Val Ala Cys Glu Gly
 100 105 110

Asn Pro Tyr Val Pro Val His Phe Asp Ala Ser Val
 115 120

<210> 4

<211> 153

<212> PRT

<213> Whale

<400> 4

Val Leu Ser Glu Gly Glu Trp Gln Leu Val Leu His Val Trp Ala Lys
 1 5 10 15

Val Glu Ala Asp Val Ala Gly His Gly Gln Asp Ile Leu Ile Arg Leu
 20 25 30

Phe Lys Ser His Pro Glu Thr Leu Glu Lys Phe Asp Arg Phe Lys His
 35 40 45

Leu Lys Thr Glu Ala Glu Met Lys Ala Ser Glu Asp Leu Lys Lys His
 50 55 60

Gly Val Thr Val Leu Thr Ala Leu Gly Ala Ile Leu Lys Lys Lys Gly
 65 70 75 80

His His Glu Ala Glu Leu Lys Pro Leu Ala Gln Ser His Ala Thr Lys
 85 90 95

His Lys Ile Pro Ile Lys Tyr Leu Glu Phe Ile Ser Glu Ala Ile Ile
 100 105 110

His Val Leu His Ser Arg His Pro Gly Asp Phe Gly Ala Asp Ala Gln
 115 120 125

Gly Ala Met Asn Lys Ala Leu Glu Leu Phe Arg Lys Asp Ile Ala Ala
 130 135 140

Lys Tyr Lys Glu Leu Gly Tyr Gln Gly
 145 150

<210> 5
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 <212> PRT
 <213> Human

<400> 5

Val Gly Ser Leu Asn Cys Ile Val Ala Val Ser Gln Asn Met Gly Ile
 1 5 10 15

Gly Lys Asn Gly Asp Leu Pro Trp Pro Pro Leu Arg Asn Glu Phe Arg
 20 25 30

Tyr Phe Gln Arg Met Thr Thr Ser Ser Val Glu Gly Lys Gln Asn
 35 40 45

Leu Val Ile Met Gly Lys Lys Thr Trp Phe Ser Ile Pro Glu Lys Asn
 50 55 60

Arg Pro Leu Lys Gly Arg Ile Asn Leu Val Leu Ser Arg Glu Leu Lys
 65 70 75 80

Glu Pro Pro Gln Gly Ala His Phe Leu Ser Arg Ser Leu Asp Asp Ala
 85 90 95

Leu Lys Leu Thr Glu Gln Pro Glu Leu Ala Asn Lys Val Asp Met Val
 100 105 110

Trp Ile Val Gly Gly Ser Ser Val Tyr Lys Glu Ala Met Asn His Pro
 115 120 125

Gly His Leu Lys Leu Phe Val Thr Arg Ile Met Gln Asp Phe Glu Ser
 130 135 140

Asp Thr Phe Phe Pro Glu Ile Asp Leu Glu Lys Tyr Lys Leu Leu Pro
 145 150 155 160

Glu Tyr Pro Gly Val Leu Ser Asp Val Gln Glu Glu Lys Gly Ile Lys
 165 170 175

Tyr Lys Phe Glu Val Tyr Glu Lys Asn Asp
 180 185

<210> 6

<211> 186

<212> PRT

<213> Escherichia coli

<400> 6

Val Gly Ser Leu Ser Leu Ile Ala Ala Leu Ala Gln Asn Met Gly Ile
 1 5 10 15

Gly Lys Asn Gly Asp Leu Pro Trp Pro Pro Leu Pro Ala Asp Leu Ala
 20 25 30

Trp Phe Lys Arg Asn Thr Leu Asp Lys Ser Val Glu Gly Lys Gln Asn
 35 40 45

Leu Val Ile Met Gly Arg His Thr Trp Glu Ser Ile Gly Arg Pro Leu
 50 55 60

Pro Gly Arg Lys Gly Arg Ile Asn Leu Val Leu Ser Arg Glu Leu Lys
 65 70 75 80

Glu Pro Pro Gln Gly Ala His Phe Leu Ser Arg Ser Leu Asp Asp Ala

85 90 95

Leu Lys Leu Thr Glu Gln Pro Glu Leu Ala Asn Lys Val Asp Met Val
100 105 110

Met Val Ile Gly Gly Ser Val Tyr Lys Glu Ala Met Asn His Pro
115 120 125

Gly His Leu Lys Leu Tyr Leu Thr His Ile Met Gln Asp Phe Glu Ser
130 135 140

Asp Thr Phe Phe Pro Glu Ile Asp Leu Glu Lys Tyr Lys Leu Leu Pro
145 150 155 160

Glu Tyr Pro Gly Val Leu Ser Asp Val Gln Glu Glu Lys Gly Ile Lys
165 170 175

Tyr Lys Phe Glu Val Tyr Glu Lys Asn Asp
180 185